





PAGER Version 6

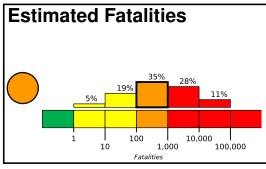
10.000

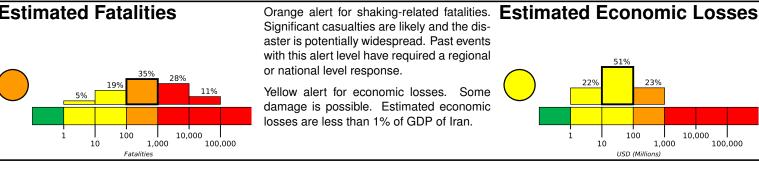
100,000

Created: 10 hours, 15 minutes after earthquake

M 5.9, 57km NE of Hashtrud, Iran

Origin Time: 2019-11-07 22:47:05 UTC (Fri 02:17:05 local) Location: 37.8075° N 47.5577° E Depth: 10.0 km





Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	204k*	5,113k*	1,319k	73k	76k	6k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		ı	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

5000 46.6 V 47.8°W Kaleybar Bostanabad Khalkhal Maragheh Qarah Aghaj V _{Maleka} Mahneshan

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us600068w0#pager

population per 1 sq. km from Landscan **Structures**

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are adobe block and low-rise nonductile concrete frame with infill construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1997-02-28	52	6.1	VIII(3k)	1k
1976-11-24	338	7.0	IX(33k)	4k
1990-06-20	171	7.4	IX(83k)	45k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

MMI	City	Population
VII	Sarab	<1k
٧	Mianeh	<1k
٧	Nir	<1k
٧	Tabriz	1,425k
٧	Hashtpar	45k
٧	Hashtrud	17k
IV	Ardabil	411k
IV	Zanjan	357k
IV	Astara	15k
IV	Lankaran	240k
IV	Masally	10k

bold cities appear on map.

(k = x1000)